Task 2

**Resources**

* <https://www.weather.gov/documentation/services-web-api>
* <https://api.weather.gov/points/42.2813,-71.355>
* <https://api.weather.gov/gridpoints/BOX/62,85/forecast/hourly>

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# **Get weather from web service**

jason = webread("https://api.weather.gov/gridpoints/BOX/62,85/forecast/hourly");

% pol = jason.geometry.coordinates; geoscatter(pol(:,:,1),pol(:,:,2))

# Build Timetable

T = struct2table(jason.properties.periods);

time = datetime(T.startTime,"InputFormat","uuuu-MM-dd'T'HH:mm:ssssZZZZZ","TimeZone","America/New\_York");

temperature = T.temperature;

TT = timetable(time,temperature)

# Plot data over time

plot(TT.time,TT.temperature)

grid on

# **Export data**

writetimetable(TT,'Data/natick.csv')

# **Create reports**

export('Tasks/task2.mlx','Reports/task2.md');

export('Tasks/task2.mlx','Reports/task2.ipynb');

export('Tasks/task2.mlx','Reports/task2.docx');

export('Tasks/task2.mlx','Reports/task2.pdf');

export('Tasks/task2.mlx','Reports/task2.html');